

Title: ROTARY ENGINE
SN: 10/781,969

Examiner: Thai-Ba Trieu
Art Unit 3748

In the Claims:

1. (currently amended) A rotary engine, comprising:

a stator having an annular chamber therein, wherein no annular wall member of said annular chamber rotates relative to any other annular wall member of said annular chamber;

a first piston that is disposed within said annular chamber, wherein said first piston traverses said chamber;

a second piston that is disposed within said annular chamber, wherein said second piston traverses said annular chamber;

at least one dog that is positioned within said annular chamber and which selectively limits the directional travel of said first piston and said second piston;

at least one fuel inlet to said annular chamber; and

at least one exhaust outlet from said annular chamber.

2. (canceled).

3. (currently amended) A rotary engine as described in claim 1 comprising a first dog and a second dog, wherein said first dog selectively limits travel of one of said first piston and said second piston in one direction, while said second dog selectively limits travel of a remaining one of said first piston and said second piston in an

Title: ROTARY ENGINE
SN: 10/781,969

Examiner: Thai-Ba Trieu
Art Unit 3748

opposite direction, and wherein said first dog is not affixed to said first piston or said second piston.

4. (canceled)

5. (currently amended) A rotary engine as described in claim 1, wherein said annular chamber is generally circular and said annular chamber is formed as a unit.

6. (currently amended) A rotary engine as described in claim 1, wherein said annular chamber has a generally circular cross section and said annular chamber is formed as a unit.

7. (canceled)

8. (canceled)

9. (original) A rotary engine as described in claim 3, wherein when said first dog limits and stops the travel of one of said first piston and said second piston in one direction, the travel of a remaining of said first piston and said second piston forces said one of said first piston and said second piston forward, wherein movement of said one of said first piston and said second piston is stopped by said second dog.

Title: ROTARY ENGINE
SN: 10/781,969

Examiner: Thai-Ba Trieu
Art Unit 3748

10. (original) A rotary engine as described in claim 9, wherein the travel of said remaining of said first piston and said second piston is stopped by said first dog after said remaining of said first piston and said second piston is forced forward.
11. (original) A rotary engine as described in claim 9, wherein fuel is received between said first piston and said second piston while one of said first piston and said second piston is stopped and said remaining of said first piston and said second piston travels.
12. (new) A rotary engine, comprising:
- a stator having an annular chamber therein,
 - a first piston that is disposed within said annular chamber, wherein said first piston traverses said chamber;
 - a second piston that is disposed within said annular chamber, wherein said second piston traverses said annular chamber;
 - at least one dog that is positioned within said annular chamber and which selectively limits the directional travel of said first piston and said second piston;
 - at least one fuel inlet to said annular chamber; and
 - at least one exhaust outlet from said annular chamber,

Title: ROTARY ENGINE
SN: 10/781,969

Examiner: Thai-Ba Trieu
Art Unit 3748

wherein said rotary engine has no more than two pistons disposed within said annular chamber.

13. (new) A rotary engine, comprising:

a stator having an annular chamber therein;

a first piston that is disposed within said annular chamber, wherein said first piston traverses said chamber;

a second piston that is disposed within said annular chamber, wherein said second piston traverses said annular chamber;

at least one dog that is positioned within said annular chamber and which selectively limits the directional travel of said first piston and said second piston;

at least one fuel inlet to said annular chamber; and

at least one exhaust outlet from said annular chamber ,

wherein said first piston and said second piston travel complete rotations of all of said annular chamber and within said annular chamber.

14. (new) A rotary engine as described in claim 12, wherein no annular wall member of said annular chamber rotates relative to any other annular wall member of said annular chamber.

Title: ROTARY ENGINE
SN: 10/781,969

Examiner: Thai-Ba Trieu
Art Unit 3748

15. (new) A rotary engine as described in claim 13, wherein no annular wall member of said annular chamber rotates relative to any other annular wall member of said annular chamber.

16. (new) A rotary engine as described in claim 13, wherein said rotary engine has no more than two pistons disposed within said annular chamber.

17. (new) A rotary engine as described in claim 12 comprising a first dog and a second dog, wherein said first dog selectively limits travel of one of said first piston and said second piston in one direction, while said second dog selectively limits travel of a remaining one of said first piston and said second piston in an opposite direction, and wherein said first dog is not affixed to said first piston or said second piston

18. (new) A rotary engine as described in claim 13 comprising a first dog and a second dog, wherein said first dog selectively limits travel of one of said first piston and said second piston in one direction, while said second dog selectively limits travel of a remaining one of said first piston and said second piston in an opposite direction, and wherein said first dog is not affixed to said first piston or said second piston.

19. (new) A rotary engine as described in claim 12, wherein said annular chamber is generally circular and said annular chamber is formed as a unit.

Title: ROTARY ENGINE
SN: 10/781,969

Examiner: Thai-Ba Trieu
Art Unit 3748

20. (new) A rotary engine as described in claim 12, wherein said annular chamber has a generally circular cross section and said annular chamber is formed as a unit.

21. (new) A rotary engine as described in claim 13, wherein said annular chamber is generally circular and said annular chamber is formed as a unit.

22. (new) A rotary engine as described in claim 13, wherein said annular chamber has a generally circular cross section and said annular chamber is formed as a unit..

23. (new) A rotary engine as described in claim 1, wherein at least one of said first piston and said second piston comprises a magnet.

24. (new) A rotary engine as described in claim 1, wherein an electrical current is generated as said first piston and said second piston rotate within said stator.